

## Claims

1. Rotary tubular kiln with a longitudinal sealing (20) in the form of a separation wall within a heating tunnel (32) having a tunnel wall (32A), which is bowl-shaped and surrounds an externally heatable rotating tube (30) having an outside surface, said longitudinal sealing extends between said tunnel wall (32A) and the rotating tube outside surface, preferably below the rotating tube, and is disposed between an entry side (38) and an exit side (40) of the heating medium in the heating tunnel, wherein said separation wall consists of a rigid part (22) at a distance from said rotating tube, and a flexible part (24), close to the rotating tube outside surface.

2. Rotary tubular kiln according to Claim 1, characterized in that the rigid part (22) consists of brickwork, and the wall crown consists of the flexible part (24).

3. Rotary tubular kiln according to Claim 1 or 2, characterized in that the flexible part (24) is made of ceramic fibers.

4. Rotary tubular kiln according to one of Claims 1 to 3, characterized in that the flexible part (24) consists of strips, joined to one another, perhaps by cementing, and made of an elastic, especially compressible, material.

5. Rotary tubular kiln according to Claim 4, characterized in that the strips form at least one stack.

6. Rotary tubular kiln according to Claim 4 or 5, characterized in that the strips of the elastic material extend essentially perpendicular, relative to the rotating tube axis.

7. Method for the production of a longitudinal sealing for a rotary tubular kiln, in particular, with the features of one of Claims 1 to 6, characterized in that the flexible part of the

sealing consists of strips of an elastic material, joined to one another, which are introduced between a rigid separation wall and the rotating drum, by pressing in individual strips or strip packets.

8. Method according to Claim 7, characterized in that the strips or strip packets extend  
5 essentially perpendicular, relative to the rotating tube axis and are compressed in a stack direction parallel to the rotating tube axis.